

PROSKURIN, V.V., dotsent; KUZNETSOV, L.A., inzh.; ANDRIANOV, A.P., inzh.; GUSEV, I.P., inzh.

Industrial testing of shield ceilings made of logs. Izv.vys. ucheb.zav.; gor.zhur. no.6:3-8 *59. (MIRA 13:4)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M.Kirova. Rekomendovana kafedroy razrabotki plastovykh mestorozhdeniy.

(Mine timbering)

ANDRIANOV, A.P., starshiy prepodavatel; GUSEV, I.P., dotsent; KUZNETSOV, L.A., starshiy prepodavatel; PROSKURIN, V.V., dotsent; FEDOROV, N.A., starshiy prepodavatel;

Clay breakthroughs in mining. Izv.vys.ucheb.zav.; gor.zhur. no.3:15-18 '61. (MIRA 15:4)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M.Kirova; rekomendovana kafedroy razrabotki plastovykh mestorozhdeniy Tomskogo politekhnicheskogo instituta. (Prokop'yevsk region—Coal mines and mining) (Clay)

GUSEV, I.P., kand. tekhn. nauk (Novokuznetsk); ZATLER, I.A., gornyy inzh.; RUBINSKIY, Yu.M., dotsent

> Establishing norms of cyclicity in longwall mines. Ugol! 38 no.11: (MIRA 17:9) 24-28 N 163.

1. Trest Kirovugol' (for ?atler). 2. Dnepropetrovskiy gornyy institut (for Rubinskiy).

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530007-2"

POIKANOV, M.I.; GUSHV, I.S., aspirant.

"Iltraviolet irradiation of cows on the "Krekshino" State Farm.

Zhivotnovodstvo 20 no.1:48 Ja '58. (MIRA 11:1)

1. Starshiy veterinarnyy vrach sovkhoza "Krekshino" Moskovskoy oblasti (for Polkanov). 2. Vsesoyuznyy institut zhivotnovodstva (for Ousev).

(Ultraviolet rays--Physiological effect) (Gows)

ALEKSEYEVA, Mariya Vasil'yevna; RYAZANOV, V.A., prof., red.;
GUSEV, I.S., red.; PETROVA, N.K., tekhn. red.

[Determination of atmospheric pollutions] Opredelenie atmosfernykh zagriaznenii. Pod red. V.A.Riazanova. Izd.2.,
perer. i dop. Moskva, Medgiz, 1963. 255 p. (MIRA 16:5)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Ryazanov).

(AIR—POLLUTION)

KASHIN, A.S.; GUSEV, I.S., starshiy nauchnyy sotrudnik

Production of pregnant mare's serum. Veterinaria 39 no.11: 57-58 N '62. (MIRA 16:10)

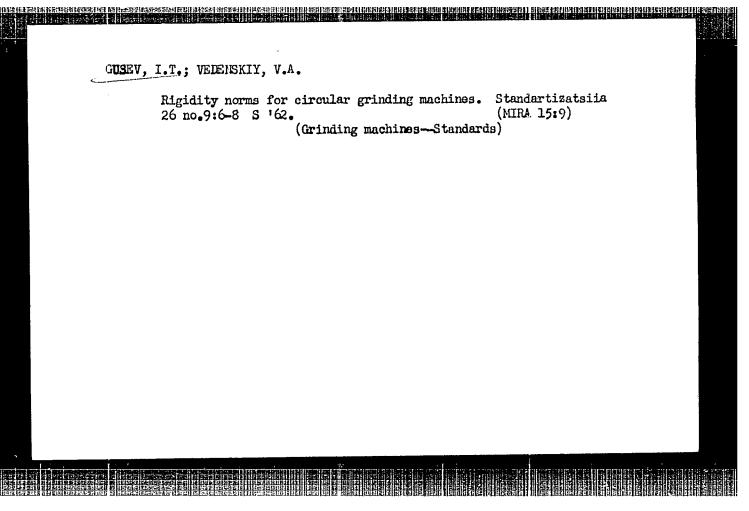
1. Nachal'nik veterinarnogo otdela Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktov Udmirtskoy ASSR.

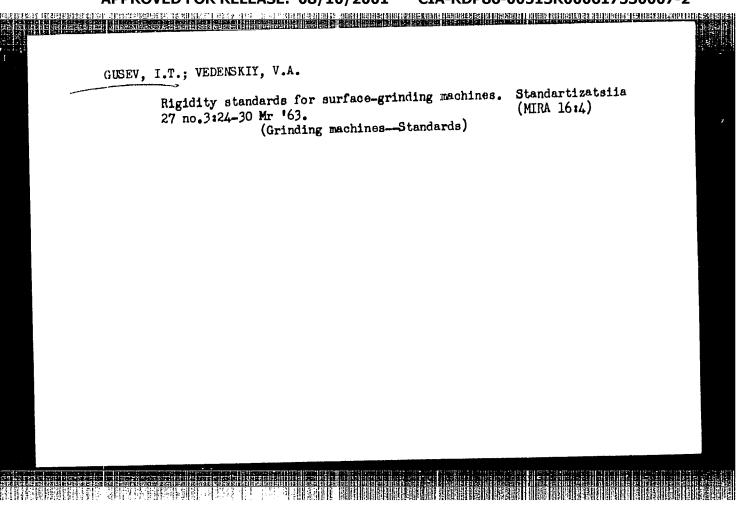
GUSEV, I. T.

"Study of the Rigidity of a Cantilever Horizontal Milling Machine." Sub 27 Feb 51, Moscow Mechanics Inst

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55





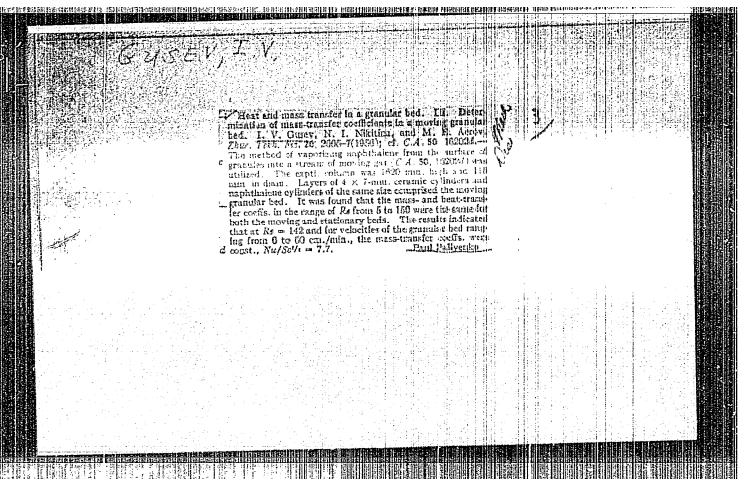
GUSEV. I.V.

Highway construction should be unremittingly controlled by party organizations. Avt.dor. 22 no.12:2-4 D '59.

(MIRA 15:4)

1. Sekretar' Ryazanskogo oblastnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza.

(Road construction)



Custo La

65-12-5/9

AUTHORS: Luk'yanov, P.I., Gusev, I.V. and Nikitina, N.I.

TITLE: On the Movement of a Compact Layer of a Granular Material

in an Apparatus (O dvizhenii kompaktnogo sloya zernistogo

materiala v apparate)

PERIODICAL: Khimiya i Tekhnologiya Topliva i Masel 1957, No.12, pp. 38-44 (USSR).

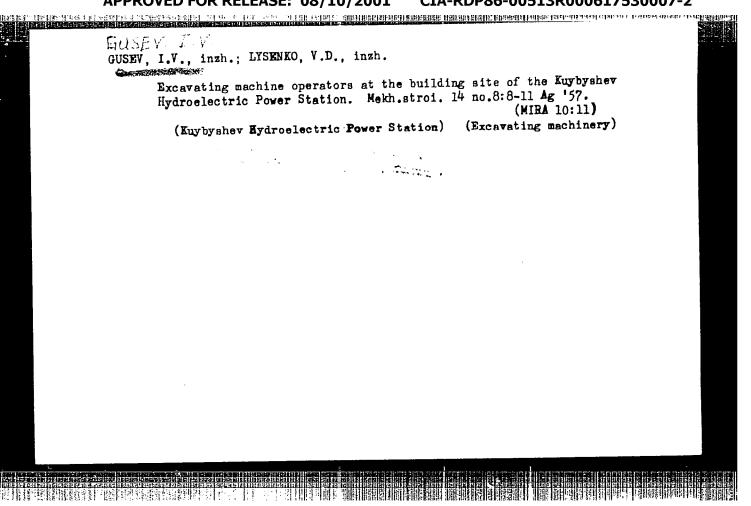
ABSTRACT: An experimental investigation of some special features of the movement of layers of granular meterials in cylindrical and rectangular vessels was carried out. A dividing metallic tube, 230 mm in dia., 2 500 mm long, and a rectangular vessel, 232 mm wide, 1 500 mm long, a spherical and pelletised aluminosilicate catalyst, refractory heat transfer medium and activated carbon were used for the experiments.

Experimental results are given in the form of velocity distribution curves. On the basis of the data obtained on the distribution of velocities in a cross-section of a moving column and the dependence of this distribution on mean prticle size the problem of changes in the mean density of a compact layer of granular material is discussed.

There are 3 tables, 4 figures and 7 references, 4 of which

Cardl/l are Slavic.

AVAILABLE: Library of Congress



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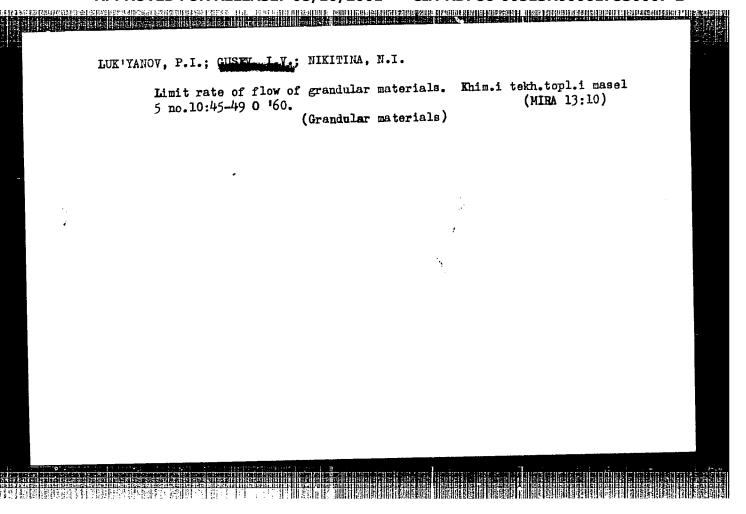
LUK'YANOV, P.I.; GUNEY, I.V.; MIKITINA, N.I.

Pressure of compact moving beds of granular material on the walls of shaft-type apparatus.

no.1:63-68 Ja '59.

(Pressure)

(Pressure)



LUK'YANOV, P.I.; GUSEV, I.V.; MIKITINA, N.I.

Effective utilization of the operating volume of apparatus with the compact moving bed of granular material. Khim. i tekh. topl. i masel (6 no.11:51-55.N '61. (Catalysts)

(Catalysts)

LILOVA, O.M.; MURIN, A.N.; PREOBRAZHENSKIY, B.K.; YAKOVILEV, GUSEV.

On the gadolinium 146 isotope. Zhur. eksp. i teor. fiz. 32 no.6: (MLRA 10:8) 1585 Je 157.

1. Radiyevyy institut Akademii nauk SSSR. (Gadolinium--Isotopes)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530007-2"

Electric locomotive performs faultlessly. Mast.ugl.3 no.3:15 Mr 154. (MIRA 7:4)
l. Mashinist elektrovoza shakhty "Krasnyy Profintern" kombinata Stalinugol'. (Mine railroads)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530007-2"

BERSHADSKIY, A.L., dektor tekhnicheskikh nauk; GUSW, K.F., inzhener.

Increasing the productivity of circular rip saws. Der.prom.5 no.9;
6-B S '56.

(MIRA 9:10)

1.Belorusskiy lesotekhnicheskiy inetitut imeni S.M.Kirowa.

(Saws)

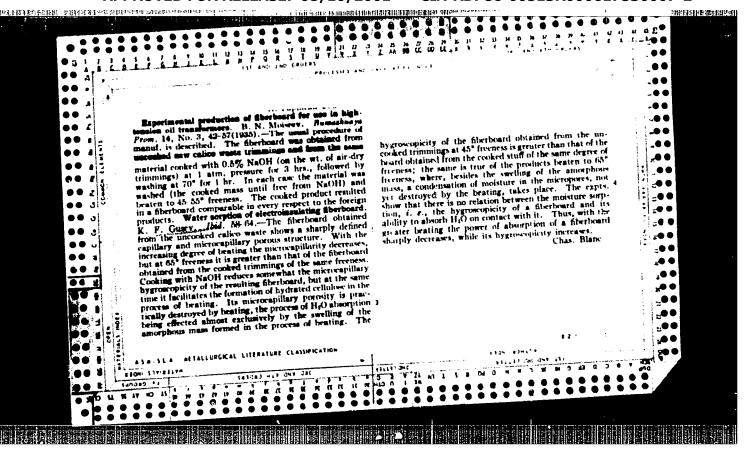
VOLAROVICH, M.P.; GALDIN, N.Ye.; GUSEV, K.F.

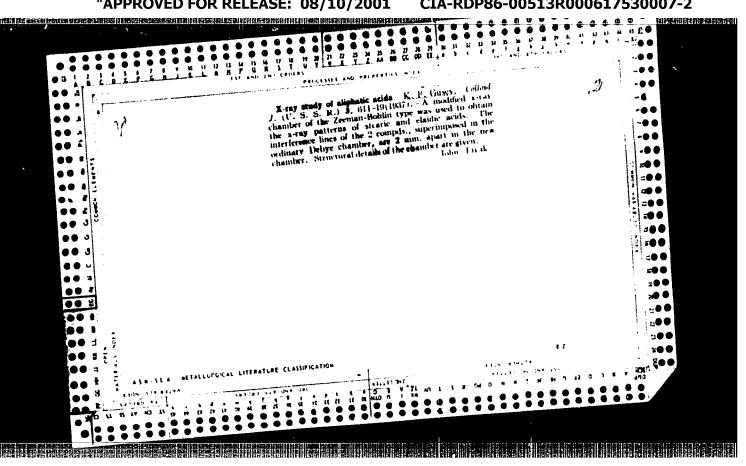
Geological, mineralogical, and X-ray study of quartz tectonites.
Zap.Vses.min.ob-va 90 no.6:660-672 '61. (MIRA 15:2)

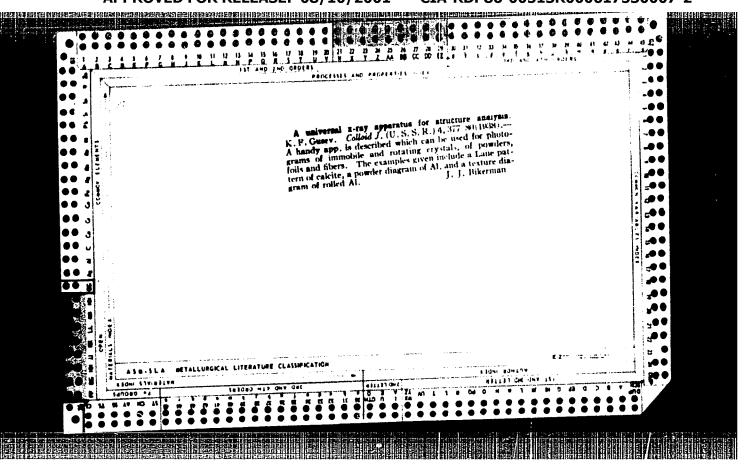
1. Institut fiziki Zemli AN SSSR, Moskva.
(Quartz) (Tectonite)

SHIBARSHIN, A.; GUSEV, K. Fello workers' courts exchange their work experience. Sov. (MIRA 15:3) profsoiuzy 18 no.7:38 Ap 162. Predsedatel' tovarishcheskogo suda avtobusnogo zavoda, g.
 Pavlovo na Oke, Gor'kovskoy oblasti (for Shibarshin).
 Predsedatel' tovarishcheskogo suda rechnogo porta, g. Khabarovsk (for Gusev). (Labor courts)

> APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530007-2"







GUSEV, K.F.

USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Solid Mineral Fuels, 1-12

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62515

Author: Volarovich, M. P., Gusev, K. F.

Institution: None

Title: Roentgenographic Investigation of Peat

Original

Periodical: Tr. Mosk. torfyanogo in-ta, 1953, No II, 97-111

Abstract: Results of roentgenographic investigations of upper sphagnumeriophorum peat ranging from absolutely dry to 66% content of water
carried out by means of a specially designed apparatus. Peat containing from 66 to 16% water has a crystalline structure the water
therein is weakly bound by swelling water and adsorption water.
With a water content from 16 to 12% (hydration) a clearly defined
crystalline structure of peat is revealed and a callulose-type

lattice is observed. On further drying peat loses the hydration

water and is converted to amorphous slate.

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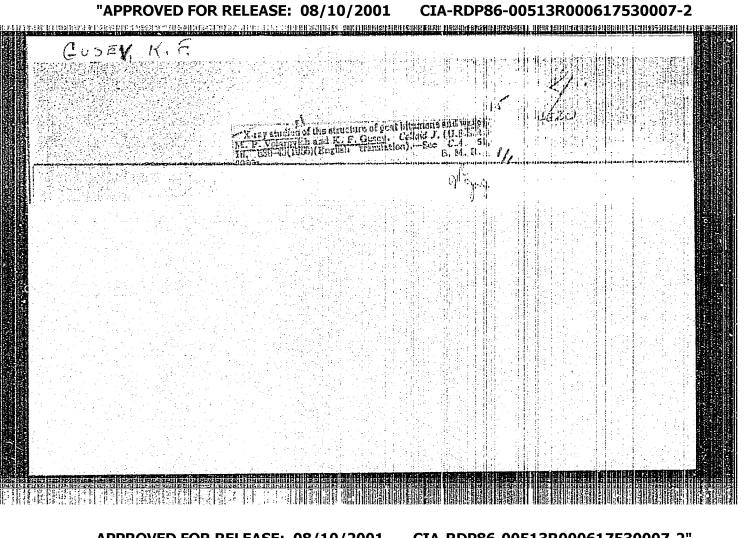
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CULEY, R. F., GINZBURG, L. Yo., and Welastwich, H. F.

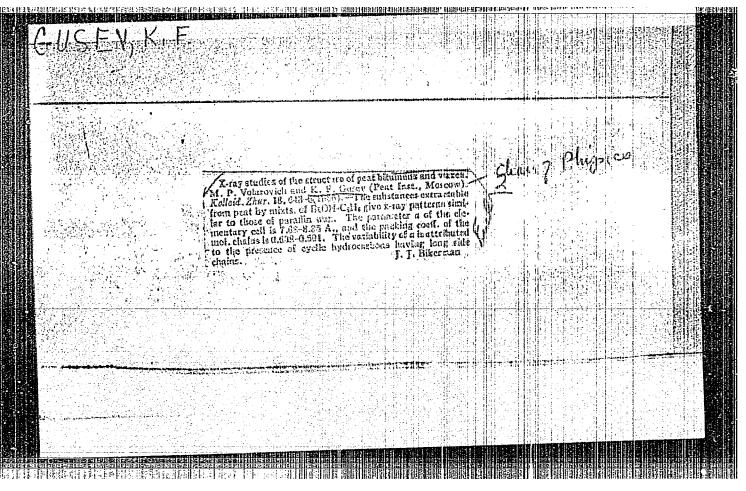
"Viscosity, Structure and Adhesive Properties of Glue Solutions" (vyezkost', strukture i kleyeschiye svoystva kleyevykh restvorov) from the book Trudy of the Third All-Union Conference on Colloid Chemistry, pp. 155-170 Iz. AH SSSR, Moscow, 1956

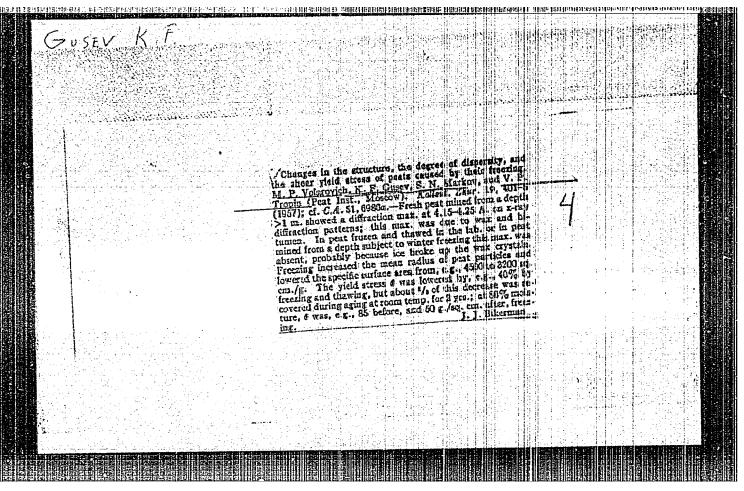
(Report given at above Conference, Minsk, 21-1 Dec 53)

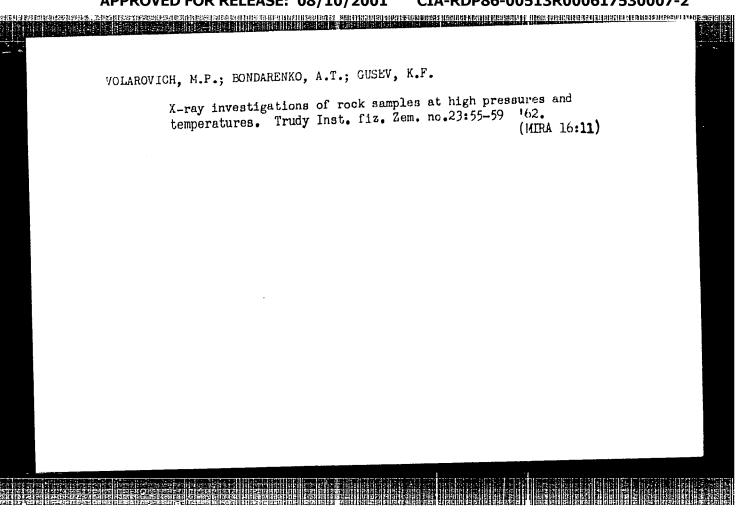
Authors: Chair of Physics of Moscow Pest Insitute and Laboratory of the Shoe Factory "Paris Commune"



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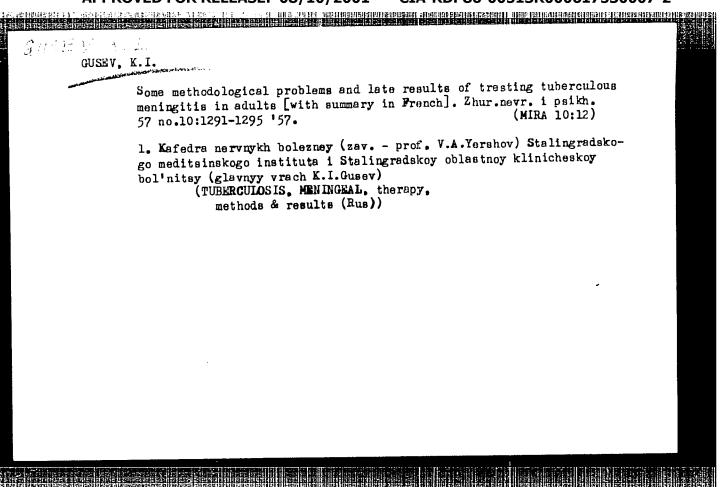




VOLAROVICH, M.P.; GALDIN, N.Ye.; GUSEV. K.F.

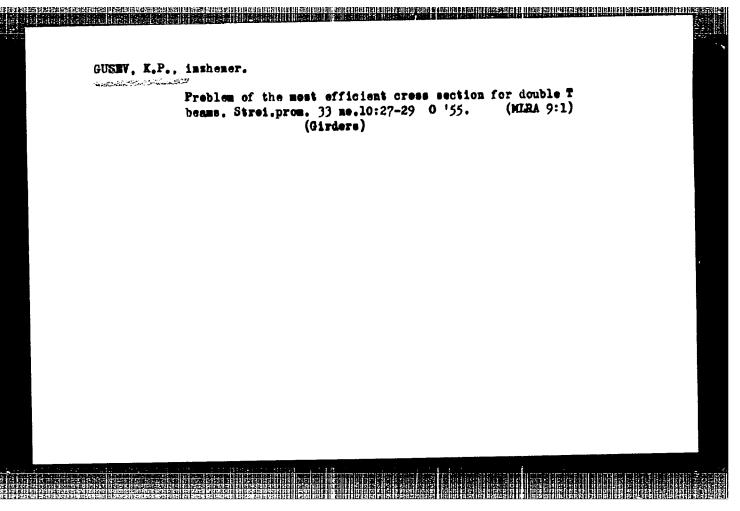
X-ray study of quartz deformations in tectonites. Trudy Inst.
fiz. Zem. no.23:60-79 '62.

(MIRA 16:11)



CHERNENKO, M.B.; LUKIN, Yu.B.; GUSEV, K.M.; KUDREVATYKH, L.A.; MAKARENKO, Ya.I.; SATYUKOV, P.A., red.; STEPANOV, V.P., red.; SELYUK, S.I., red.; SUTOTSKIY, S.B., red.; ABALKIN, N.A., red.; KOZEV, N.A., red.; AVER-CHENKO, B.Ye., red.; SOBOLEV, L.S., red.; SIMONOV, K.M., red.; POLE-VOY, B.N., red.; GALIN, B.A., red.

[Heroes of our times] Geroi nashikh dnei. Moskva, Izd. gazety
"Pravda," 1961. 619 p.
(Labor and laboring classes)



AUTHOR:

Gusev, K.P., Ingenieur.

176

TITLE:

Problems of crack-formation in reinforced concrete constructions. (K voprosu o treshchinoustoichivesti

zhelezobetonnykh elementov).

PERIODICAL: "Beton i Zhelezobeton" (Concrete and Reinforced Concrete),

1957, No.3, pp.105-106 (U.S.S.R.)

ABSTRACT:

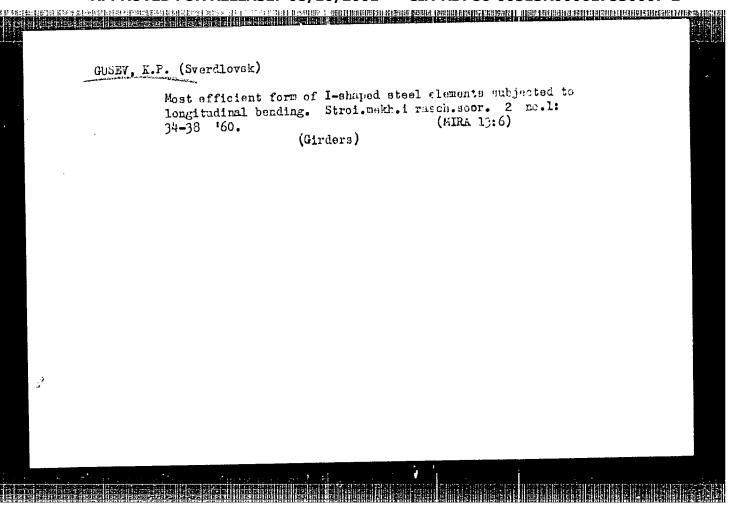
G. D. Tsiskreli's book "Resistance of Tensioned Non-Reinforced and Reinforced Concretes" published by Gosstroiizdat, 1954 discusses new approaches to the problems of crack-formation. Some formulae quoted in the book are criticised such as the formula for the calculation of tensional stresses in concrete. When defining the internal stresses in a section of a beam which is in the state of crack formation it is necessary to state the height of the compressed zone of the concrete as well as the compression stresses in the fibres. For this Professor Tsiskreli used two conditions: the sum of the internal stresses on the herizontal axis = 0; the sum of the internal moments = 0. The second condition applies only to external loading and cannot be used as a base for the calculations. He also assumes that X = height of the compressed zone of the concrete. This is not a constant and cannot be used in the calculations. The author is correcting the formula for the height of the compressed zone and defines

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TSOME DESIGNATION OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE PROPERTY OF THE PROPERTY OF THE CONTROL O

Problems of crack-formation in reinforced concrete 176 constructions. (Cont.)

the latter more exactly by applying the linear law of the distribution of the deformation throughout the section. He also gives a modified formula for the fibre deformation. Gusev claims that his formulae give accurate results whereas Tsiskreli's formulae were only accurate within 10 to 15%. There are two graphs, one table and two references (to the above book).



ASTAPOVICH, Z.A., dots., red.; GUSEV, K.V., dots., red.; KACHURINA, A.V., red.; MARTYNOVA, F.N., tekin. red.

[The Soviet working class at the present-day stage] Sovet-skii rabochii klass na sovremennom etape. Moskva, Izd-ro"Mysl'," 1964. 187 p. (MIRA 17:3)

1. Moscow. Akademiya obshchestvennykh nauk.

ASTAPOVICH, Z.A., dotsent, red.; GUSEV, K.V., kand. istorich. nauk, red.; ZHDANOV, P.Ya., red.; MURASHEV, A.A., red.; RODZHABLI, D.S., red.; NAUMOV, K.M., tekhn. red.

[Consolidating the alliance between the working class and the peasantry during the sharp upsurge of agriculture, 1953-1958] Ukrepelenie soiuza rabochego klassa i krest'ianstva v period krutogo pod"ema sel'skogo khoziaistva; 1953-1958 gg. Moskva, Izd-vo VPSh i AON pri TsK KPSS, 1961. 478 p. (MIRA 14:7)

1. Moscow. Akademiya obshchestvennykh nauk. (Agricultural policy)

FRANTSEV, Yu.P., rektor, otv. red.; IVAN'KOVICH, N.F., red.; VLADIMIRTSEV, V.S., red.; STEPANYAN, TS.A., prof., red.; CHANGLI, I.I., starshiy nauchnyy sotr., kand. ekonom. nauk, red.; YESELEV, N.Kh., red.; GUSEV, K.V., red.; BONAREV, N., red.; GRINGAUZ, S., red.; SPITSYNA, A., red.; KUZNETSOVA, A., tekhn. red.

[Standard-bearers of communist labor] Znamenostsy kommunisticheskogo truda. Moskva, Moskovskii rabochii, 1961. 322 p. (MIRA 14:12)

1. Akademiya obshchestvennykh nauk pri TSentral'nom komitete Kommunisticheskoy partii Sovetskogo Soyuza i Chlen-korrespondent AN SSSR (for Frantsev). 2. Zaveduyushchiy sektorom Instituta filasofii AN SSSR (for Stepanyan). 3. Institut filosofii AN SSSR (for Changli). (Labor and laboring classes)

ASTAPOVICH, Z.A., dots., red.; GUSEV, K.V., kand. ist. nauk, red.; IVANOVA, R.S., red.; KACHURINA, A.V., red.; RATNER, V.I., red.; NAUMOV, K.M., tekhn. red.

[Development of the working class in the national Republics of the U.S.S.R.] Razvitie rabochego klassa v natsional nykh respublikakh SSSR. Moskva, Izd-vo VPSh i AON pri TsK KPSS, 1962. 309 p. (MIRA 15:6)

1. Moscow. Akademiya obshchestvennykh nauk.
(Labor and laboring classes)

KIM, M.P., glav. red.; ARUTYUNYAN, Yu.V., red.; GUSEV, K.V., red.;
DANILOV, V.P., red.p SHARAFOV, G.V., red.; IVANOVA, R.S.,
red.; KACHURINA, A.V., red.; RATHER, V.I., red.; NAUNOV,
K.M., tekim. red.

[Alliance between the working class and peasantry at the
present-day stage] Soiuz rabochego klassa i krest'ianstva
na sovrememnom etape. Moskva, Izd.-wo VPSh i ADN, 1962.
358 p. (MIRA 15:9)

1. Moscow. Akademiya obshchestvennykh nauk.

(Agricultural policy)

ASTAPOVICH, Z.A., dots., red.; GUSEV, K.V., dots., red.; ZHDANOV, P.Ya., red.; MARTYNOVA, M.N., tekhn. red.

[Growth of the creative activity of the working class of the U.S.S.R. in the period of the large-scale building of communism] Rost tworcheskoi aktivnosti rabochego klassa SSSR v period razernutogo stroitel'stva kommunizma. Moskva, Izd-vo VPSh i AON pri TsK KPSS, 1963. 437 p. (MIRA 16:5)

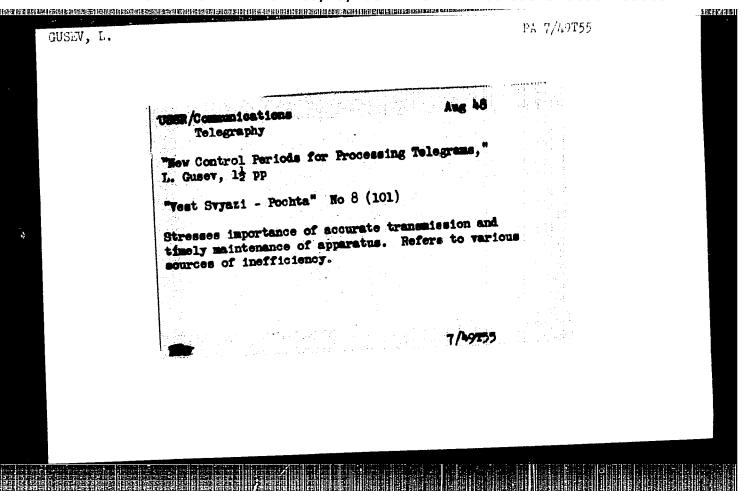
1. Akademiya obshchestvennykh nauk, Moscow. (Labor and laboring classes)

RAICHINIV, I.; GUSHEV, L.; NAKOV, T.

Movement of the center of gravity of a heat substance in nonlinear correlations. Godishnik Min geol inst 8;291-297 '61-'62[publ.'63].

AYZERMAN, Mark Aronovich; GUSEV, Leonid Alekseyevich; ROZONOER, Lev Il'ich; SMIRNOVA, Irina Mikhaylovna; TAL', Aleksey Alekseyevich; KOROLEV, N.A., red.; MURASHOVA, N.Ya. tekhn. red.

[Logic. Automats. Algorithms] Logika. Avtomaty. Algoritmy. Moskva, Fizmatgiz, 1963. 556 p. (MIRA 17:3)



GUSEV, L.				
Telegraph New production nor	ms for telegraph operat	tors, Sov. svisz.	No. 2, 1953.	
		tibrary of Cong	ress, <u>l'ay</u>	195 3. Unclassifie
9. Monthly List	of Russian Accessions	, Library or av p		

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530007-2"

KRUGLOVA, Ye.I.; GUSEV, L.A., redaktor; VEYHTRAUB, A.B., telchnicheskiy redaktor.

[My work as a telegrapher; an account of a senior telegrapher in a district communication office] Moia rabota na telegrafe; rasskas starshei telegrafistki raionnei kontory sviasi. Moskva, Gos. izd-vo lit-ry po vopresam sviasi i radie, 1955. 22 p.

(Telegraphers)

BRENINA, Varvara Vasil'yevna; MINAKOVA, Anna Grigor'yevna; YAS'KOVA, Nadezhda Tikhonovna; SVERDLOVA, I.S., redaktor; GUSHV, L.A., redaktor; KHELEMSKAYA, L.M., tekhnicheskiy redaktor

[Our work practice with Baudot apparatus] Nash opyt raboty na apparate Bodo. Moskva, Gos.izd-vo lit-ry po voprosam sviszi i radio, 1955. 30 p.

(MIRA 9:3)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530007-2"

AREF'YEVA, Vera Mikhaylovna; QUENT otvetstvennyy redektor; BERESIAVSKAYA, L.Sh., tekhnicheskiy redaktor [Telegraph dispatcher in the city communication service] Ekspeditor telegrafa gorodskogo otdeleniia sviasi. Moskva, Gos. izd-vo lit-ry po voprosam sviasi i radio, 1956. 35 p. (MLRA 10:2) (Messengers) (Telegraph)

CIA-RDP86-00513R000617530007-2"

APPROVED FOR RELEASE: 08/10/2001

BUZGAN, I.A.; GUSEV, L.A., inzhener. Improve the delivery of telegrams to addressees. Vest.sviazi 16 no.11:27-28 H'56. 1. Starshiy inzhener Upravleniya mezhdugorodnoy telegrafno-telefonnoy svyazi Ministerstva svyazi RSFSR. (for Busgan) 2. Glavnoye upravleniye medicated telegration telefonnoy synai Ministersiva synai SSSR.

(for Guser). (Telegraph)

CIA-RDP86-00513R000617530007-2"

APPROVED FOR RELEASE: 08/10/2001

507/103-19-10-3/12 Gusev, L. A. (Moscow) AUTHOR: Determination of Periodic Behavior in Automatic Control Systems Having Mon-Linear Element With a Piecewise Linear TITLE: Characteristic (Opredeleniye periodicheskikh rezhimov v sistemakh avtomaticheskogo regulirovaniya, soderzhashchikh nelineynyy element s kusochno-lineynoy kharakteristikoy) Avtomatika i telmekhanika, 1958, Vol 19, Nr 10, pp 931-944 PERIODICAL: (USSR) This is a presentation generalizing the method of finding periodic solutions for systems of a general nature, that ABSTRACT: is to say for systems with an arbitrary piecewise linear characteristic (the number of sections with different gradients combining to form the curve being arbitrary). These periodic solutions take the form of Fourier-(Fur'ye) series (without neglecting the higher harmonics). Contrary to the procedure adopted in the paper cited by reference 1 no use is made of the affine transformation of the initial curve into a curve consisting of sections parallel with the coordinate axes. This leads to a considerable simplification of the equations which are used for the determination of the Card 1/3

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sov/103-19-10-3/12

Determination of Periodic Behavior in Automatic Control Systems With a Mon-Linear Element Having Piecewise Linear Characteristic

periods of motions of the plotting point in the individual sections of the curve. If a computer is employed it is convenient to use the algorithm advanced in this paper in case the number of linear sections of the curve is small and the order of the linear sections is high. Problems of stability of periodic operation schedules are not covered in this study. They are presented in reference 2. The problem posed in this paper consists of solving the system h of transcendent equations (equations for the periods) which determine the periods of motion in each section of the non-linear characteristic in the range of the period. Some remarks are made concerning calculation technique and some problems concerning the use of computers are studied. Finally it is demonstrated that it is possible to find periodic solutions for a more extended class of systems of differential equations with the help of the method advanced in this paper. There are 6 references, which are Soviet.

SUBMITTED: Card 2/3

3

January 9, 1958

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530007-2"

CIA-RDP86-00513R000617530007-2 "APPROVED FOR RELEASE: 08/10/2001 你这个大概是我们会们会是全种技术的,但是不是这种的现在分词,我们就是这个人的是这种人们的一个人的,我们也是不是一个人的人,我们也是不是一个人的人,也是一个人的人

78165 S0V/103-21-3-11/21 9.3200

Ayzerman, M. A., Gusev, L. A., Rosonoer, L. I., Smirnova, I. M., Tal', A. A. (Moscow) AUTHORS:

Finite Automatons. II. TITLE:

Avtomatika i telemekhanika, 1960, Vol 21, Nr 3, pp 359-PERIODICAL:

368 (USSR)

The paper is a continuation of the article published in "Avtomatika i telemekhanika," Vol 21, Nr 2. In ABSTRACT:

Part II of this article the following problem is discussed: an automaton A', operating at a selected pace of time, T' is to be formed out of automatons A, operating at a different pace of time T. In referring to Part I of the paper, it is shown that this may be obtained by two methods. According to the first method,

& delay elements, operating at pace T, are connected

in series as shown in Fig. 1,

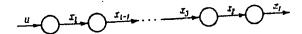
Card 1/4

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CIA-RDP86-00513R000617530007-2 "APPROVED FOR RELEASE: 08/10/2001

Finite Automatons. II.

SOV/103-21-3-11/21



forming a delay line described by equations $x_1(p) = x_2(p-1),$ $x_3(p)=x_3(p-1),$ $x_l(p) = u(p-1).$

The number $oldsymbol{\mathcal{L}}$ is a positive integer. It is assumed that pace T is represented on the time axis by equal intervals T and pace T' by equal intervals &T.

When an automaton is designed by the aggregation method in such a manner that the delay element with pace T is everywhere replaced by the above described lines, then the resulting automaton still operates at pace T. However, by registering the input and the delay line output symbols of this automaton after only $\mathcal{L}_{\mathcal{T}}$ sec,

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the automaton with the desired pace may be obtained. The second method is applied to an automaton A, which at the moment t_0 assumes an input state ρ_0 , the latter remaining constant until t_1 . During time $t_0 \le t \le t_1$ the automaton operates as an autonomic automaton (see part I). At $t=t_1$ the input state ρ_0 changes to ρ_1 and remains constant until $t=t_2$, thus defining a new autonomic automaton. At $t=t_2$ the state ρ_1 changes to ρ_2 , etc. Under the assumption that the input state ρ_1 and the states ρ_1 (see part I) are registered only at times ρ_1 , ρ_2 , ρ_1 , ρ_2 , $\rho_$

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Finite Automatons. II.

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relay-contact systems. By neuron is meant an element with a finite number of inputs and one output only. The input and output states are designated by symbols from the "alphabet" {0,1}. The output symbol is singularly determined by the input symbols which existed au seconds ago. A neuron may be considered as a finite automaton with only two possible states. Neurons may be combined into networks without the use of symbol converters (see Part I). Relay systems may also be considered as finite automatons of the "neuron network" type, the time delay of au sec being determined by the duration of the relay operation. Concluding remarks are made on the possibility of considering a system designed as to belong to the class of finite automatons. The application of the theory of finite automatons is terminated as soon as equations of type (6), Part I, are written. These equations are then used as a basis for engineering design. There are 5 figures; and 1 table.

SUBMITTED:

November 26, 1959

Card 4/4

86115

s/103/60/021/012/002/007 BC12/B064

16.9500 (1024,1031,1132)

Ayzerman, M. A., Gusev, L. A., Rozonoer, L. I., Smirnova, I. M., Tal', A. A. (Moscow) AUTHORS:

Methods of Working out a Finite Automaton the Time Pace of TITLE:

Which Is Dependent Upon the Variation of the Input State

PERIODICAL: Avtomatika i telemekhanika, 1960, Vol. 21, No. 12,

pp. 1576-1594

TEXT: The papers of Refs. 1, 2 define such a dynamic system as a finite automaton the behavior of which is determined at the given instants (rhythms) 1, 2, ..., p by equation (1): $\kappa(p) = F[\kappa(p-1), \rho(p-1)]$, where $\kappa(p)$ and $\rho(p)$ are variables and $F(\kappa, p)$ an unambiguous function. The variable X was assigned to the output of the automaton, and determined variable λ was assigned to the output of the automaton, and determined from formula (2): $\lambda(p) = \frac{1}{2} [\kappa(p)]$ a new variable μ is introduced into equation (1) and formula (3) is obtained: $\kappa(p) = \mu(p-1)$, $\mu(p) = F[\kappa(p), \rho(p)]$. Instead of (2), the more general formula (5) is written down: $\lambda(p) = \frac{1}{2} [\kappa(p), \rho(p)]$. The system expressed by equations (3) and (5) is called a sequential machine. In so far as (2) is a special case of (5).

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Methods of Working out a Finite Automaton S/103/60/021/012/002/007 the Time Pace of Which Is Dependent Upon the B012/B064 Variation of the Input State

the "sequential machine" comprises the notion of the "finits automaton". On the other hand there is a theorem which shows that a sequential machine is "no more efficient" than a finite automaton with an output converter (Ref. 4). This theorem reads: Every sequential machine M can be compared to a finite automaton A with an output transformer in such a way that for any state of M, a corresponding state of A will exist, where in the case of an arbitrary input sequence the output sequence of A in all cases of p \geqslant 1 represents the output sequence of M by a delay by one rhythm, and vice versa.— This paper deals with sequential machines only, which realize the finite automaton, formula (6). (6) is obtained from (3) and (5) by eliminating μ and κ . It reads $\lambda(p) = F_1[\lambda(p-1), \rho(p)]$. The working cycles

1, 2, ..., p are clearly determined by the instants at which the input state is changed. It is assumed that the basic table of the (6) automaton is given. Three methods of realizing this basic table by means of the sequential machine are studied. The methods differ by the amount of information reaching the input of the automaton. The first method is that of D. D. Huffman (Ref. 5). The second method provides for the feed of an Card 2/3

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Methods of Working out a Finite Automaton S/103/60/021/012/002/007 the Time Pace of Which Is Dependent Upon the B012/B064 Variation of the Input State

additional information on the instants at which the input state has changed. In the third method, the automaton obtains the information through the input state at the respective moment and at some preceding moments. It is shown that this method warrants the most economic automaton. In this case it is possible not only to reduce essentially the number of necessary states of the automaton, but also to reduce as much as possible. There are 7 figures, 19 tables, and 7 references: 6 Soviet.

SUBMITTED: May 24, 1960

Card 3/3

加州村野町町 5.3200 AUTHORS: Ayzerman, M. A., Gusev, L. A., Rozonoer, L. I., 77828 sov/103-21-2-8/14 Smirnova, I. M., Tal', A. A. TITLE: Finite Automatons. I PERIODICAL: Avtomatika i telemekhanika, 1960, Vol 22, Nr 2, pp 224-236 (USSR) ABSTRACT: The authors give their point of view on the theory of finite automatons. A finite automaton is defined as a dynamical system which at certain discrete moments satisfies the rollowing conditions: (1) The state of the system is selected from a finite number k of possible states (2) The state of the input to the system is selected from a finite number r of possible input states. (3) The state of the system at any considered moment is derined singularly by the state of the system and the state of the input at the preceding moment. The following designations are introduced: Card 1/12 2, ..., k are symbols of k possible systems

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Finite Automatons.

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of states. Their totality | X | is called a state alphabet; (b) ρ_1 , ρ_2 ,..., ρ_2 are sympols of the r possible input states. Their totality (ρ) is called an input alphabet. According to the condition (3) the operation of a finite automaton is described

 $\times (p) = F[\times (p - 1), p(p - 1)],$

where F is a function with a single value. The abstraction introduced by the concept of "finite automaton" singles out a class or systems in which the processes are described not by differential equations but by specific equations of type (1). A finite automaton may have $l(l \leq k)$ possible output states designated as λ In their totality designated as an output alphabet $\{\lambda\}$. In case of an automaton with an output,

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Eq. (1) must be supplemented by the "momentary"

 $f(p) = \Phi \{x(p)\}.$

(2)

Equations (1) may be represented by Table 1.

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This table is called the basic table of finite automaton and may be set up in the following manner: a pair of symbols selected from alphabets $\{P\}$ and $\{B\}$ determines one case in the table. Assuming the symbol pair as

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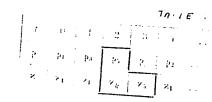
Finite Automatons. I

77828 SOV/103-21-2-8/14

 ρ (p-1) and χ (p-1), and using Eq. (1), the value of κ (p) may be determined and written for the above case. Equation (2) also downes a table



For a selected sequence of input symbol: ρ , Table 3



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characterizes a sequence of symbols ${\cal V}$, in recordance with Eq. (1). In this band there is a corr sponding

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P and K for each moment t. The band is called a state band. Three symbols, K(p-1), P(p-1), and K(p), defined by Eq. (1) are separated by a heavy line on Table 3. They are called a triad. When the system is defined by Eq. (1) and Eq. (2), then an output band, as names and the making h must also be considered. as represented by Table 4, must also be considered.

When the input state does not vary with time the automaton is called autonomic. Equation (1) for this

 $\times (p) = F\{\times (p-1), \gamma(0)\}.$

(3)

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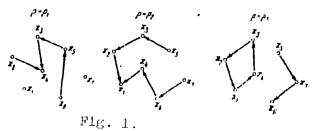
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Finite Automatons. I

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where $\rho(0)$ may be considered a parameter. The operation of an autonomic automaton may be represented graphically by k points corresponding to system states and represented by arrows which show the direction of transition from one point to the other, in accordance with Eq. (3). Since a nonautonomic automaton has r input states, it can be represented by r various autonomic automatons, under the assumption that the r input states do not vary. The totality of r graphs representing the above autonomic automatons characterizes the nonautonomic automaton. Figure 1 shows an example of a totality of 3 graphs



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Table 5 corresponds to the automaton characterized by $\mathrm{FL}_{\mathbb{C}}$.1.

	<u> </u>				TABLE 5			
	, y,	•			Ns.	×a	27	
P1	X,	×	×4	1	ı,	7;	A;	1
Pz	x ₁	×ı	ж,	к1	кэ	24	×a	ĺ
Рз	×	×1	>:	Nβ	х,	74	×e	
Рэ	×,	×ı	×z	N ₃	х,	74	×	

The introduction of the concept of "finite automaton" poses a series of problems. The bands represented by Tables 3 and 4 are assumed to be infinite and cannot be selected. Selected are the algorithms which determine the symbol for any case of an infinite band. For the band represented by Table 3, the algorithms corresponding to the upper (ρ) and to the lower (χ) line are designated as A ρ and A χ , respectively.

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Similarly, Ap and A are the algorithms of the output band, represented by Table 4. For a given automaton, the analysis, i.e., the determination of Ay or A in accordance with Ap, does not represent of any scientifle problem. On the contrary, the synthesis of an automaton, i.e., finding the Eq. (1) from the given band algorithms poses several problems. When Ax and Ap are known, the first problem consists in finding an algorithm proving that AP and Ay are not contradictory, i.e., there are no contradictory triads in the band. Two triads are contradictory when their symbols $\rho(p-1)$ and $\chi(p-1)$ are the same, but when symbols $\rho(p-1)$ are different. When Ap and Ax are not contradictory, an algorithm must be found determining all various triads of the band. Synthesis corresponding to the output band is a more complex problem. Here Ap and A are known and the sumber of states k and function

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p In Eq. (2) have to be determined. It is stated that in case of finite state and output bands, the synthesis problem becomes less complex. To discuss the synthesis problem the following concepts are introduced: (1) The Symbol Converter. This is an abstract arrangement performing the transformation defined by Eq. (2), (2) The Equivalent Automatons. On Fig. 2, atnomaton

$$\begin{array}{c|c}
\hline
(a) & C_{\alpha\beta} & |\beta| & -|\beta| & |\alpha| & -|C_{\alpha\beta}| & |\alpha| \\
\hline
(a) & A & |\alpha| & |\alpha| & |\alpha| & |\alpha| \\
\hline
(b) & A & |\alpha| & |\alpha$$

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A is operating according to the input alphabet $\{\alpha\}$ and the state alphabet $\{a\}$. Automaten B has the input alphabet $\{b\}$ and the state alphabet $\{b\}$. It is assumed that two symbol converters $\{a\}$ and $\{b\}$ and $\{b\}$ may be selected

Finite Automatons. I

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In such a manner that for any sequence of input symbols from $\{a\}$, the sequence of symbols from the alphabet $\{a\}$, at the output of the combined system $\{a\}$, $\{a\}$, will be the same as the sequence of state symbols in A. In this case it is said that B is an image of A and may be written as.

 $A \cap B$ on $B \supseteq A$.

When at the same time,

A. Bana A M.

then A and B are equivalent automatons. (3) The Abstract Structure of a Finite Automaton. An arrangement of a input lines u_1, \dots, u_s and of n, generalized coordinates x_1, \dots, x_n is considered. At moments 0, 1, 2, 3,...,p, each input and each coordinate has

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only one of a finite number of values. The operation of such an arrangement is described by

 $x_1(p) = f_1\{x_1(p-1), \dots, x_n(p-1); u_1(p-1), \dots, u_s(p-1)\}\{i-1, \dots, a\}$ (6)

Equation (6) is another form of Eq. (1). To one equation of type (1) correspond varios equations of the type (6). The transition from Eq. (1) to the equivalent Eqs. (6) is called a selection of structure of a finite automaton, and Eq. (6) themselves are called an abstract structure (AS) of a finite automaton. (4) The Net. This is a totality of AS, interconnected by means of symbol converters. Based on the above concepts, the authors arrive at the conclusion that a finite automaton may be designed by combining into a net other finite automatons. The design of a multitude of automatons from a small number of initial automaton—"elements" is called abstract aggregation. A set of AS and converters is called complete, when by means of this set the networks designed are images of any selected

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automaton. A technically very important complete set is set-up of the following elements: (a) a binary delay element, described by the equation x(p) = z(p-1), where x and z are selected from an alphabet comprising only two symbols, O and 1, for example; (b) a set or logic elements enabling performance of any logical function. It is shown that from the above set a net may be designed to be an image of any finite automaton. (To be continued). There are 4 figures; 6 tables; and 25 references 17 Soviet, 1 French, 7 U.S. The 5 most recent U.S. references are: Eurks, A. W., Wright, J. B., Theory of Logical Nets, Proc. IRE, No. 4 (1953); Huffman, D. A., The Synthesis of Sequental Switching Circuits, Journ. Franci Inst., Vol 257, Nr 3, 4 (1954); Burks, A. W., Wang, II., The Logic of Automata., Journ. Assoc. Comp. Mach., Vol 4, Nr 2, 3 (1957); Davis, M. D., Computability and Unsolvability, McGraw Hill, New York (1957); Copi, I. M., Elgot, C., Wright, J. B., Realisation of Events by Logical Nets, Journ. Assoc., Comp. Mach., 5, p 181, Nr 2 (1958). June 10, 1959

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530007-2"

26772 S/103/61/022/006/007/014 D229/D304

16.4000(1121,1132,1395)

Ayzerman, M.A., Gusev, L.A., Rozonoer, L.I.,

Smirnova, I.M., and Tal', A.A. (Moscow)

TITLE:

Algorithmic non-solvability of the problem of recognizing the possibility of the representation of recursive events by finite automatic devices

PERIODICAL: Avtomatika i telemekhanika, v. 22, no. 6, 1961,

748 - 755

TEXT: The authors introduce the concept of recursive events based on that of recursive functions, and consider the representation of events in automatic devices. The first theorem to be proved is that of non-solvability, as stated in the title. It has been for-mulated without proof in a paper by B.A. Trakhtenbrot (Ref. 7: Sintez logicheskikh setey, operatory kotorykh opisany sredstvami ischisleniya odnomestnykh predikatov, Dokl., AN SSSR, vol. 68, no. 4, 1958) and the authors call it Trakhtenbrot's Theorem. To prove

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530007-2" Algorithmic non-solvability ...

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it, a more restricted problem is formulated: A recursive function φ(t) is supposed to be given which is fixed in the set of whole numbers and takes values belonging to a finite set {0, 1, ... r-1}. An automatic device A with input alphabet $\{\rho_0, \dots, \rho_{r-1}\}$ is considered. Of all possible input sequences the following ones are se-

 $P_{\varphi(0)}$, $P_{\varphi(0)}$, $P_{\varphi(1)}$, $P_{\varphi(0)}$, $P_{\varphi(1)}$, $P_{\varphi(2)}$, etc. $\varphi(i)$ being a symbol from $\{\varphi\}$ the index of which coincides with the value of $\varphi(t)$ for t = i. An event S^{φ} consists in the appearance of some one of the sequences selected above, at the input of A at a given moment. A is said to represent the function $\varphi(t)$ if it represents the event S^{φ} . The second Theorem is: The function $\varphi(t)$ can be represented by a finite automatic device if and only if $\varphi(t)$ is periodical above a certain value of t, i.e. there exist two numbers τ and T such that for any $t \geqslant \tau \varphi(t+T) = \varphi(t)$. Proof of the theorem is given. The second theorem reduces the problem of

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Algorithmic non-solvability ...

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recognizing representability of recursive functions to that of recognizing periodicity of the function specified as above. Since the latter is not algorithmically solvable for the case of the function taking two values, an extension being said to be obvious, the proof of the second Theorem proves also the first. There are 8 the English-language publications read as follows: I.M. Copi, C. Elcot, J.V. Wright, Realization of events by logical nets, Journal Assoc. Comp. Mach. vol. 5, no. 2, 1958; M.D. Davis, Computability and Unsolvability, McGraw Hill, N.Y., 1957.

SUBMITTED: January 4, 1961

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Card 3/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530007-2"

GUSEV, L. A.

"Equivalency and minimization of sequential machines"

report submitted for the Intl. Symposium on Relay Systems and Finite Automata Theory (IFAC), Moscow, 24 Sep-2 Oct 1962.

AYZERMAN. M. A. (Moskva); GUSEV, L. A. (Moskva); RCZONOER, L. I. (Moskva);

SMIRNOVA, I. M. (Moskva); TAL', A. A. (Moskva)

Conversion of the time pace of sequential machines and synthesis of switching circuits. Avtom. 1 telem. 23 no.11:1465-1491

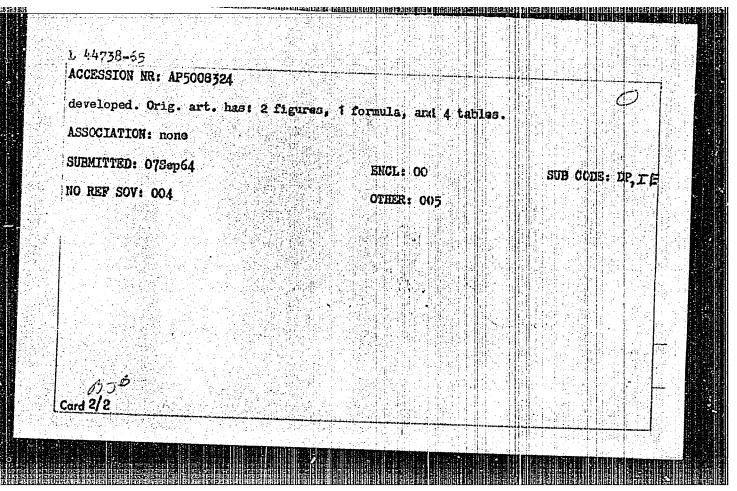
N '62. (MIRA 15:10)

(Electric relays) (Switching theory)

(Automatic control)

27 7 14 17 18 18 18	S)/EWP(b)/EWT(d)/EWP(l)/EWP(v) Pf-+/Pg-+/Pk-4/Pl-4/ IJP(c) 8C
ACCESSION NR: AP500	- 1
AUTHOR: Gusev, L. A	. (Moscow); Tal', A. A. (Moscow)
TITLE: Setting up a in a questionnaire	lgorithms for the abstract synthesis of sequential machines 🥰
SOURCE: Avtomatika :	1 telemekhanika, v. 26, no. 3, 1965, 510-520
TOPIC TAGS: sequent: automatic control sy automatic control sy ABSTRACT: Possibilities sequential machines these two types: (1) the "tree" is admissially alphabet {s} of extapes. The method us Inst., v. 257, nos. (1) Not always can be finite-length tapes.	ial machine, questionnaire language, automatic control, ystem, automatic control design, automatic control theory ty is considered of realization of an abstract synthesis of on the basis of replies to a finite number of questions of) Whether or not the "tape" is admissible; (2) Whether or not sible. The "tape" is a sequence of symbols taken from the xternal situations; the "tree" is a branching combination of sed is an outgrowth of D. A. Huffman's method (J. Franklin 3-4, 1954). It is proven that the abstract synthesis: se realized on the basis of replies to the quention regarding to present the state of the quentions cover finite-responding "basic" algorithm of the quentions cover finite-

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GUSEV. L. A., YERIM, A. I. Cnions
Onion seed culture on collective farms. Sad i og. No. 5, 1952.
9. Monthly List of Russian Accessions, Library of Congress, July 1953. Unclassified.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530007-2"

GUSEV, L. A., YERINO, R. L.

Clover

Five centners of red clover seed from one hectare. Sov. agron. 10 no. 5:32-34 My '52

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

GUSEV, L. A.; YERINA, R. I.

Beets and Beet Sugar

13.9 centners of beet seeds per hectare. Sel. i sem., 19, No. 9, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

CIA-RDP86-00513R000617530007-2" APPROVED FOR RELEASE: 08/10/2001

GUEV, L. K.: "Transatic breaks of the smist some and their transatical-roemt.enological assects." Enarghand State Select in.t Secretary 1. F. Pavlov. (Dissertation for the Degree of Candidate in Feuical Sciences).

50: Knichnaye leteris', No 23, 1916

KARLENKO, P.N., prof.; GUSEV, L.K., kand.med.nauk; YENIKEYEVA, M.A., kand. med.nauk; OMIROV, R.Yu., aspirant; YUSUPOV, N.A.; ordinator; AZAMATOV, N.A., ordinator; TAYTS, N.Yu.; ASRIYANTS, N.G., ordinator; BORUKHOV, S.A., ordinator.

Some results of a study of goiter in Samarkand Province of the Uzbek S.S.R. Med. zhur. Uzb. no.5:17-20 My '61. (MIRA 14:6)

1. Iz kliniki obshchey khirurgii Samarkandskogo gosudarstvennogo meditsinskogo instituta imeni I.P.Pavlova.
(SAMARKAND PROVINCE—GOITER)

CIA-RDP86-00513R000617530007-2 "APPROVED FOR RELEASE: 08/10/2001

GUSEV, L.K., kand, med. nauk; TAYES, N.Yu., ordinator Foreign bodies in the esophagus. Naush, trusy Samili 22:18-22 163. (MERA 17:9) l. Iz kliniki obshchey khirurgii Samarkandskogo meditsinskogo

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1 14052-65 DWG(j)/EWI(m) AMD/BSD/AS(mp)-2 ACCESSION NR: AR4045863 S/0299/64/000/014/M023/M023 SOURCE: Ref. zh. Biologiya. Svodnywy tom, Abs. 144156 8 AUTHOR: Aripov, U. A.; Gusev, L. K.; Atayants, V. A. TITLE: Characteristics of "accretion" of bone homotransplants in irradiated animals. CITED SOURCE: Sb. 3 Vses. konferentsiya po peresadke tkaney 1 organov, 1963. Yerevan, 1963, 252-253 TOPIC TAGS: accretion, bone, homotransplantation, transplantation, irradiation, rabbits, radiation sickness TRANSLATION: Four experimental series were staged on 20 rabbits. In the first series a bone homotransplant was transplanted from a nonirradiated donor to a nonirradiated recipient; in the second series a bone homotransplant was transplanted from a nonirrediated donor to an irradiated recipient; in the third series a bone homotransplant was transplanted from an irradiated donor to a nonirradiated recipient; in the fourth series a bone homotransplant was transplanted Card 1/2

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from an irradiated donor to an irradiated recipient. Radiation dose was 500 r. A defect in one quarter of the irradiated bone length was produced by operation. In the first series after 2 weeks tender homogeneous periosteal stratification appeared in the transplant area. After one month the bone homotransplant had distinct contours, and after $2\frac{1}{2}$ to 3 mos the bone homotransplant could not be identified by X-ray. Histological examination disclosed restoration of the bone marrow canal and spongy structure of the cortical lamina of the bone homotransplant. In the second series, accretion of the homotransplant did not take place and the bone homotransplant resorption started by reaction appeared late but after 3 mos the roentgenological and histological picture was the same as in the first series. In the fourth series, the periosteal reaction was absent up to the 34th day and all rabbits died of radiation sickness.

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Card 2/2

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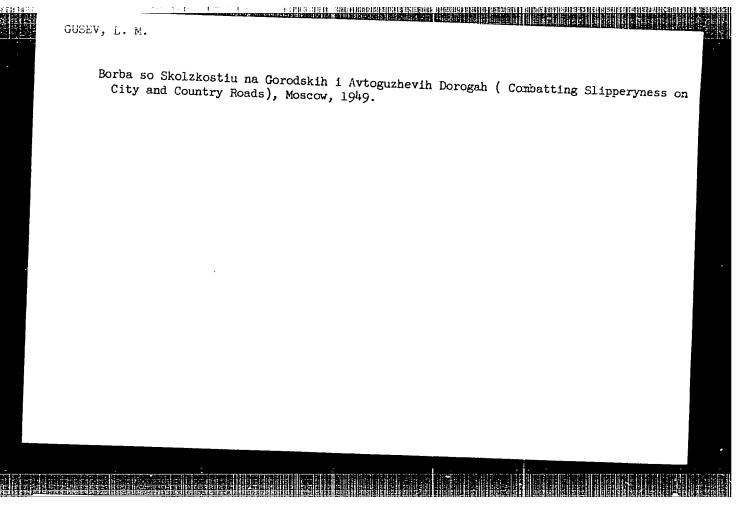
GUSEV, L. M.

Doc Tech Sci - (diss) "Bases of theory and calculations of machines for clearing city roads." Moscow, 1961. 36 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Motor Vehicle and Road Inst "MADI"); 200 copies; price not given; (KL, 10-61 sup, 212)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617530007-2"

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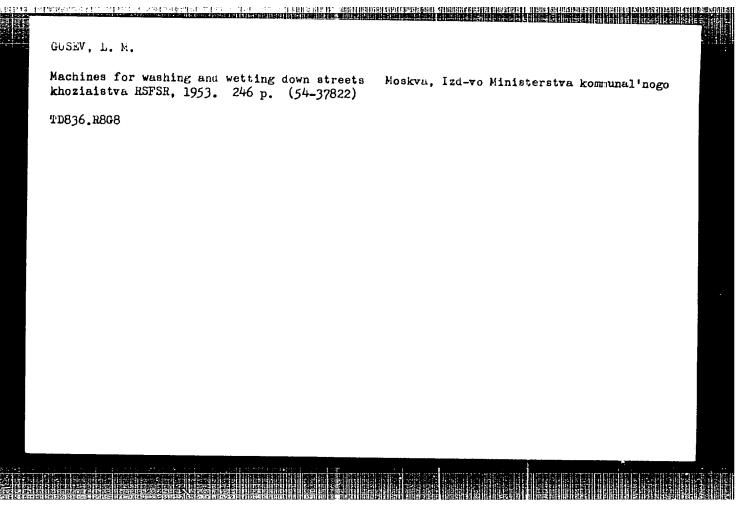
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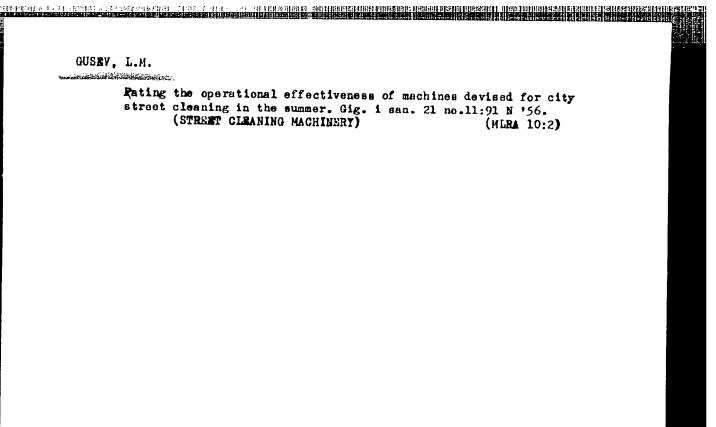
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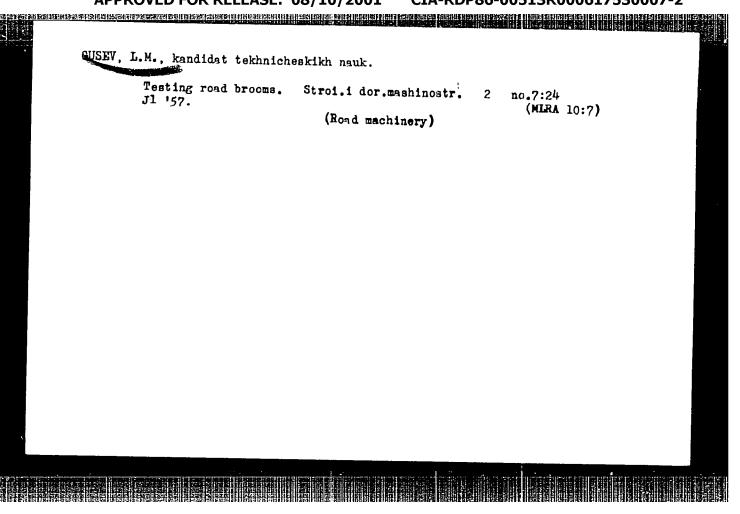
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